1 Interview Summaries

1.1 Central Maine Power Company

Interview Type	Personal, Utility
Interview Location	CMP, Augusta, ME
Interview Date	October 31, 2001
Summary Date	November 12, 2001
Interviewer	CDM / Michelle Thaler (thalerma@cdm.com)
Interviewed:	*Dennis Boston, Project Manager (IS/GIS) (dennis.boston@cmpco.com) 83 Edison Drive Augusta, ME 04336 207-623-3521x2695 Joe Partlow, GIS Data Glen Gagney, Distribution Manager, Design Support, CADD/GIS Dana Doran, Economic Development Coordinator (dana.doran@cmpco.com) Angie Wyeth, Project Manager (IS/GIS)
Staff Size (approx)	1,400 total employees – GIS staff work under the IS division but others, such as Economic Development, use GIS
Budget (approx)	
URL:	http://www.cmpco.com

1.1.1 Overview

Central Maine Power (CMP) provides electric power service to approximately 550,000 residential, commercial and industrial customers in southern and central Maine. CMP has approximately 20,479 miles of distribution line, 2,342 circuit-miles of transmission; 164 miles of submarine or underground cable; 285 electric substations. The above ground transmission system is mapped in GIS format. The underground system is not mapped in GIS format.

1.1.2 GIS Initiatives

1.1.2.1 Overview of GIS Utilization

CMP has GIS staff who work in the IS department. Additionally, staff in other departments such as Economic Development, use GIS as an analysis tool. A majority of the GIS data is stored in Shapefile format. ArcView is used to maintain the data. Users access the data through a MapObjects interface. In 1999 a project was begun to map the transmission lines. In September 2001 a project to map the distribution system was begun. Northern Geomantics wrote some Avenue code to assist with data maintenance in ArcView.

1.1.2.2 GIS Operating Environment and Infrastructure

CMP maintains the following:

- 10 copies of ArcView 3.2 for data development and maintenance
- 1 ArcInfo 8.1 for use in special projects (data is stored in shapefile format)
- Microstation is used for CADD work

- Hardware includes:
    - Servers running Windows NT
    - WAN at CMP
    - 755HPcm and 1055HPcm plotters
    - OSE 9800 black and white plotter
    - Cannon clc 5000
    - Color plotter

1.1.2.3 GIS Data Resources and Requirements

1.1.2.3.1 Spatial Data

- Data is maintained in UTM Zone 19 NAD83 Meters

Existing data sets include:
Basemap features:
Started with GDT roads – no longer use them
Use E911 roads from OGIS

Analysis layers include:
GPS data of pole locations (collected every 1-2 years) +/- 1 meter accuracy
Transmission main locations (linked to SCADA – Harris)
Substation location (point)
Device locations (point) including transformers, street lights and poles
Environmentally sensitive areas from Northern Geomantics
Historical areas (places where excavation is not allowed)
Service territory (would be willing to give this to OGIS but not to share with the public)
Parcel location for CMP owned parcels (polygons)
Delorme street atlas (250 paper copies used for routing – books are stored in trucks)
Data from OGIS includes

- County boundaries
- Town boundaries
- Water features
- Railroads
- Landuse
- USGS 7.5 minute topo maps
- E911
- Comprehensive plan layer including growth zones for 151 municipalities
- Wetlands
- School locations

Currently unavailable but desired data sets include:
Parcels with ownership information
Metadata including data status (when last updated, accuracy, etc) for existing data
Roads (E911) with better address ranges
Other utility location information

Labor information from Department of Labor, and census (for economic development analysis)
Right of Way (for planning and analysis)
Service area maps showing telecom service areas (useful to know where you have cell phone service)
Roads with seasonal weather related changes posted (weight limits change with seasons – useful in crew routing)
One source of road data

1.1.2.3.2 Attribute Data

- Substation (point) location data is in db2, Oracle and Access
- Customer Information System (CIS) contains CMP address, road code, service address and billing information - the CIS is Datacom, some of the data is in Oracle
- The Asset Management system is Peoplesoft
- Pole attributes in db2 – joined to point data

1.1.2.3.3 Data Issues

1.1.2.4 GIS Applications and Application Requirements

GIS is used for asset mapping. CMP would like to be able to do a connectivity trace and electrical model. Data is currently stored in Shapefile format and CMP plans to use this data format as long as possible.

Planned future GIS activity and applications:
CMP would like to use GIS for economic development. CMP would like parcel information along with employment and census data to use when trying to attract businesses to Maine. CMP plans to work with Maine & Co in developing a growth zone data layer. Siting for development is currently a time consuming task that could be enhanced with the use of GIS. CMP would also be open to working with COGS and Regional Planning councils on a case-by-case basis to perform analysis on parcels.

CMP is concerned about analysis being undertaken by outside agencies. CMP has found that its data has been misinterpreted and this has led to erroneous results.

CMP would like to use GIS for the following:

- Outage management
- Vehicle location tracking
- Facilities maintenance planning
- Education and public relations with business customers

1.1.3 Major Benefits and Cost Justification

CMP uses GIS in its daily business practices. CMP would like to have access to data from towns and the state. CMP would be willing to pay for road data if that would ensure

that the data is updated on a regular basis. CMP is concerned with the relative accuracy of the roads, not with absolute accuracy.

CMP is not willing to share data pertaining to its assets, including the distribution system location and information. This data has been misinterpreted by non-CMP employees. CMP is willing to work with businesses and planning agencies on economic development projects and share data pertaining to those projects with the agencies involved.